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Abstract

Some of the promising developments in outdoor education programs and activities of elementary and secondary schools, colleges, and private and state agencies are identified. Federally aided programs are cited. Brief statements of the programs in the states which reported to district chairmen in each of the 6 American Association for Health, Physical Education and Recreation districts (28 states) are contained in this report. (SW)

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

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PROMISING DEVELOPMENTS IN OUTDOOR EDUCATION

Prepared by

The Council on Outdoor Education and Camping
American Association for Health, Physical Education, and Recreation

March 1968

American Association for Health, Physical Education, and Recreation
(A Department of the National Education Association)
1201 Sixteenth Street, N. W., Washington, D. C. 20036

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FOREWORD

The Council on Outdoor Education and Camping had as a major project for 1967-68 the identification of some of the promising developments in outdoor education programs. This document contains brief statements of programs in the states which were reported to district chairmen in each of the six AAHPER districts. While it is recognized that the programs described represent only a small portion of those under way, it is believed that they represent some of the current developments and trends.

The interest in outdoor education by schools and colleges is reflected in the growth of programs throughout the United States. It was felt that an exchange of program ideas would be of interest to Council members and other leaders in outdoor education and would serve to stimulate the initiation of new programs. There never was a time when the climate was better nor the need greater for good programs in outdoor education that will enrich and extend education to meet today's needs.

The Executive Committee of the Council on Outdoor Education and Camping gratefully acknowledges the cooperation of the district chairmen and all those who contributed to this report. Leaders in outdoor education are urged to report new and promising programs that come to their attention to the Outdoor Education Project office, 403 Erickson Hall, Michigan State University, East Lansing, Michigan 48823. The Outdoor Education Newsletter of the Outdoor Education Project and subsequent publications of the AAHPER will continue to report and interpret significant developments in outdoor education.

The Council on Outdoor Education and Camping is a part of the structure of the American Association for Health, Physical Education, and Recreation. Membership is open to all those interested in outdoor education who are now or wish to become members of AAHPER.

George W. Donaldson
Chairman, Council on Outdoor Education
and Camping, 1967-68

Julian W. Smith, Director
AAHPER Outdoor Education Project

Chairmen of District Task Forces on Promising Developments:

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EASTERN	Irwin Rosenstein (Albany, New York)
MIDWEST	John W. Hug (Columbus, Ohio)
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SOUTHERN	William T. Washington (Auburn, Alabama)
SOUTHWEST	Jack L. Davidson (Los Angeles, California)

I. CENTRAL DISTRICT

Colorado

- A Title III project--Dare-to-Care--in Adams County was developed this year and will be continued.
- Three schools in Boulder combined for a week's outdoor school this year. There is interest in Boulder so this will probably increase.
- In Colorado Springs, Dick Holliday initiated the first week-long outdoor education laboratory by taking his fifth grade to the High Trail Outdoor Education Center in Florissant, Colorado.
- Denver has established a committee to plan for an outdoor education program. Contact: Ruth Newlan.
- The Laboratory School at Colorado State College, Greeley, has its own facility near Estes Park. The school also uses the nearby Rocky Mountain National Park. Contact: V. A. Cyphers, Outdoor Education Coordinator, Colorado State College.
- The sixth graders of Platteville Elementary Schools, Platteville, had a week long program this year. It will be continued in the schools.

Iowa

- Benton Community School District, Van Horn, began one-day outdoor education programs on a pilot basis two years ago. It is continuing. Contact: Ray Manship.
- Bettendorf Community Schools report: (1) the employment of a full-time outdoor education director; (2) a program of resident camping in the fall encompassing all sixth grade children desiring to participate in the program (recently concluded their first fall resident camp program with an 85% attendance rate); (3) a school year program of field tripping for all grades (these trips, both out-of-doors and industrial, are jointly conducted by the classroom teacher and the director of outdoor education. Contact: Don W. Jurgs, Director of Outdoor Education.

Kansas

- Plans are under way for a program in the Ottawa Schools.
- Seaman Unified School District #5 reports the establishment of an outdoor education curriculum with plans for the development of an outdoor education site at Perry Reservoir which has been acquired on a lease from the federal government.

Kansas (continued)

- The Topeka Schools has introduced a plan to acquire a site for outdoor education at Perry Reservoir. The plan was tabled, but will be introduced again at a later date for further discussion.

- Washburn University, Topeka, has begun two courses in outdoor education. The first Workshop in Outdoor Education was conducted in the Summer Session, 1967, with 17 people enrolled. Additional workshops will be held next summer. Contact: Helen M. Hocker.

Missouri

- The Clayton School District, Clayton, conducts an outdoor school for sixth graders in the spring at White Cloud, Quiver River State Park, Troy. High school students assist as counselors. Contact: George Stuber, Outdoor Education Coordinator.

- Harris Teachers College, St. Louis, students in Camp Counseling Course serve as staff for programs in St. Louis city schools. Contact: Helen I. Baldwin, Dean of Women.

- North Glendale School, Kirkwood, is conducting a pilot project in school camping involving the sixth grade. Contact: Richard Overfelt, Principal.

- Lindbergh District Schools, St. Louis, will initiate a pilot program of week-long outdoor sessions in May 1968. Some 100 pupils from fifth grades will be involved at Camp Mo-Val, Union, Missouri. Contact: Mrs. Elma Armisted.

- Stevens College, Columbia, uses a re-claimed dump as a wildlife and nature area. Contact: H.C. Launs, Science Department.

- Several schools in the St. Louis City Schools rent various local camps for one-week resident outdoor education experiences for sixth graders. Some of the schools and teachers involved include: Walnut Park - Sheran Miller; Wyman - Harold Darnall; Maddox - Robert Nulgardt; Reading Clinic - Tom Echols; Banneker District.

- University City School District has a school camp program for sixth graders. They have received a planning grant and are working with the city of University City on a nature center. Contact: Ronald Goldenberg,

- Webster Groves School District Outdoor Education Program: All sixth graders spend a week in an outdoor setting from Sunday noon to Friday evening. Some fifth graders spend one day at the site. Lower grades spend part of the day on school grounds or city parks. Junior high school classes (biology, photography, general science) might spend a day at camp site. Senior high school boys and girls serve as counselors and aids for the sixth grade school camp program. Contact: W. L. Kloppe, Director of Special Services.

Missouri (continued)

- The College School at Webster College, Webster Groves, conducts a one- to two-week outdoor school for all grades (1 - 6) at the close of the school year. Contact: Dave Roach.

Nebraska

- Chadron State College, Chadron, has formed an Outdoor Club with an initial membership of fifty students. Contact: Don Holst.

- Chadron State College students staff a three-day resident outdoor education program for Chadron Public Schools. Four other schools were added in 1967. Contact: Mack Peyton, Chadron State College.

- Omaha Public Schools has received by donation a 160-acre farm which is being developed into a farm laboratory for vocational students. Plans include construction of dormitories and classrooms so that other students may use the laboratory. Contact: John H. DeBoer.

- Westside Community School District 66, Omaha, completed its second year of a pilot program of outdoor education, involving sixth grade pupils from six schools. Plans are being made to extend to other schools. Contact: Paul Nelson.

II. EASTERN DISTRICT

Maryland

- Allegany County has recently conducted some pilot outdoor school experiences for 6th graders at Pleasant Valley, owned by the 4-H Clubs of Maryland. Expansion of this program is planned under the direction of Bob Pence, Supervisor of Physical Education, County Board of Education, Cumberland.

- The Carroll County Board of Education has been conducting an outdoor school program for all 6th grade students for the past several years. Herb Ruby, Supervisor of Physical Education (Board of Education, Westminster), in in charge of the program.

- Cecil County Board of Education, Elkton, has a unique outdoor school program, operating for a school week, but because of lack of overnight facilities the boys and girls are bused home each night. The program takes place at the Elk Neck State Park and State Forest near the head of the Chesapeake Bay. The program is under the supervision of Richard Holler.

- Funding has been approved for the expansion of the Frederick County Outdoor School program to include all 8th grade students as well as 6th grade students. The 8th grade program will be conducted at Mar-Lu Ridge during the winter months with emphasis on earth science. The program is under the direction of Roy Okan, Board of Education, Frederick.

- An Outdoor Laboratory and Nature Center is under development by the Frederick County Board of Education. The city of Frederick has leased 750 acres on the city watershed to the schools and a comprehensive land use plan has been prepared by the Nature Centers Division, Audubon Society. Several community groups have helped develop a parking area, mark a nature trail and build a campfire circle. Though development is just beginning the area is now used for many field trips. Roy Okan is in charge of the developmental project.

- The Frederick County Board of Education, Frederick, has included an extensive outdoor education program as part of Project Opportunity funded under Title I of the Elementary and Secondary Education Act for culturally deprived boys and girls who have just completed grades 1, 2 and 3. Four members of the Frederick County Outdoor School staff are assigned full time for six weeks during the summer and conduct field trips each day so that all children in the project get 12 full day trips during the six-week session. Contact: David Marple.

- The Frederick County Outdoor School at Camp Greentop of the National Park SErvice, Thurmont, Maryland, has been under way since 1957 and has influenced many other programs in the state. Involves 1,400 sixth graders, including deaf and mentally retarded. Field studies are the main emphasis. Contact: Roy Okan.

- Garrett County Board of Education, Oakland, has a resident outdoor school program, started during the summer of 1966, and involving children of culturally deprived families. The project, including many facilities, is funded under Title I, ESEA. Charles Strauss, Supervisor of Physical Education, is program director.

- The Harford County Outdoor School has been conducting a successful program for the past several years under the leadership of Earle Wagner, Harford County Board of Education, Bel Air.

Maryland (continued)

- The Montgomery County Board of Education, Rockville, recently hired a Coordinator of Outdoor Education to plan with schools and develop long range plans for the expansion of programs. Wayne Sommer, formerly with the Maryland Board of Natural Resources, assumed this position on September 1, 1967.

- Prince Georges County Board of Education, Upper Marlboro, now conducts an outdoor school program at Camp Letts, owned by the YMCA, for 6th graders. They are in the process of acquiring land on which to build their own camp facility. The program is under the supervision of Tom Paskalides.

- The Washington County Board of Education, Hagerstown, is operating a resident outdoor school program for culturally deprived boys and girls during the summer, funded under Title I, ESEA. The regular Outdoor School staff plus additional teachers and aides are assigned to the project at Camp Misty Mount in Catoctin Mountain Park. Russell Heyde is coordinator of the program.

- Worcester County Board of Education, Snow Hill, has started a field trip program for all 5th graders in the school system. Most sessions are held at Shad Landing State Park. Emphasis is on natural science, ecology, game management, soil and water conservation, forestry and boating safety. Resource persons from state agencies are used in the program, but classroom teachers integrate material into the regular curriculum. Frederick Fletch is program coordinator.

Massachusetts

- The Education Cooperative serves nine districts. It is a Title III, ESEA project now in its second year with an operational grant. Director is G. Stanley Patey, Brook School, Weston.

- Lexington High School, Lexington, and Quabbin Reg. High School, Barre, have two offerings in outdoor education for 12th grade students--a conservation course and an outdoor classroom. Lexington is in its second year and Quabbin Regional is in its first year. Both programs stress conservation and ecology and are in the outdoors extensively. Teachers: Robert Ames, Joe Frates.

- Twelve school districts, Liberty Group (420 Lincoln Road, Sudbury), conduct a Title III, ESEA, project, in its second year with an operational grant. This project has several major sections, one of which is conservation/outdoor education. Project Director: Robert Gaines.

- Three towns--Lowell, Dracut and Tewksbury--participate in the Lowell Environmental Arts and Science Center, a Title III, ESEA project. The Massachusetts Department of Natural Resources is cooperating by making the Dracut State Forest available. The program is now in its second year and has an operational grant. Project Director: Charlie Epstein, School Department, Lowell.

- In the Oceanographic Education Center, a Title III, ESEA, project in its second year, the emphasis is to develop curriculum enrichment in oceanography. They have worked closely with Woods Hole personnel for teacher training and program development. Director of the Center, located in Falmouth, is James Kinney.

Massachusetts (continued)

- Project Lighthouse, serving Marshfield, Hingham, Cohasset, Scituate, Hanover, Duxbury, Plymouth, Carver, and Hull, is a Title III, ESEA, project. Director: Derek R. Little.

- The State College at Boston offers a Workshop in Outdoor Education as an elective for upperclass women. The course is designed to serve the needs of classroom teachers and stresses the basic information fundamental to understanding the interrelationships between the natural environment and man. The objectives are accomplished through classroom lectures, field trips, and camp experiences. Instructor: Edith G. DeAngelis.

- Warren Center, Boston-Bouve College of Northeastern University, Boston, was dedicated in May 1967 and is already used extensively. During the summer of 1967 there were three sessions in camping education in which major students in Physical Education and in Recreation lived in residence. The last nine weeks was an exciting camp for youngsters from culturally deprived environments. Groups of 100 youngsters spent three-week periods at camp, with men in Physical Education serving as counselors. During the regular school year the center is being used by Recreation Education majors in their course in Outdoor Education. Director: Howard Jeffrey.

- E.P.I.C. (Educational Project to Implement Conservation), Westfield Schools, 22 Broad Street, Westfield, is in its first year on a planning grant under Title III, ESEA. Director: Donald Lambert.

New Jersey

- For the past three years, Camden has been taking children to an outdoor recreation area during the summer. The participants have been disadvantaged children who have failed that scholastic year. Though not labeled outdoor education, the very nature of the program brings about outdoor education. Camden has now purchased land in Winslow Township for an Outdoor Education Center, which will probably be in operation by next year. Contact: Roy Dawson, Hatch Junior High School, Camden.

- The Outdoor Education program in the Camden Public Schools is developing along the following lines: (1) Purchase a 70-acre site with an 8-acre lake. Construct on the site a central facility (kitchen, dining-classroom, etc.) plus housing facilities for 120 students. (2) Develop the site for swimming and other outdoor recreation and physical education activities, as well as for the study of nature. (3) Use all facilities for an integrated program of teaching or conducting projects in social understandings, music and art, performing arts, corrective and/or remedial reading, science and math, and intensive counseling, in addition to its use for recreation and nature study. Contact: W. Frank Johnson, Director of Research.

New Jersey (continued)

- A development in the Cherry Hill School System is nature trails with published guides, on County Park property adjacent to an elementary school. Cherry Hill is a participating district in the Southern New Jersey Council for Outdoor Education and will send a class to Whitesbog this year. Contact: Wessley Wells, Heritage Junior High School, Cherry Hill.

- Crows Woods Nature Area, Haddonfield, is a nature study day camp operated through the Town Department of Public Works. Full-time during summer; fall and spring, cooperates with public schools. Director: Wesley A. Wells.

- Fair Lawn conducts a resident program for 8th graders for one week at Silver Lake, Paterson YMCA Camp. 200 students selected from all levels of achievement. Contact: Fred Clayton.

- Frankford Township Board of Education: Resident outdoor education program, grade 5, Dorothy Stivers. Outdoor-natural science, grades 6, 7, 8, John Padalino, Frankford School, Box 430, Pines Road, Branchville.

- Franklin Township conducts a resident program for all 5th grade students at the New Jersey State School of Conservation. Supervisor: Richard Holler, Board of Education, Franklin Center.

- Maple Shade School System conducts a three-day resident program for 6th graders using a YMCA camp. The program includes classes in conservation, ecology, art and crafts, swimming and boating. Contact: Howard Buzzard, Edgewood Regional High School, Tansboro.

- The New Jersey State School of Conservation, Branchville, provides facilities and leadership for five state colleges in New Jersey which require an outdoor experience for large numbers of undergraduate students as part of their teacher training programs. This is probably the largest single outdoor education center in the world and involves nearly 12,000 people each year. Director: John Kirk.

- New Jersey State Colleges: A new graduate program in outdoor education and conservation for experienced teachers, funded under Title V of the Higher Education Act, has been approved as a joint venture of Trenton State College, Glassboro State College, Montclair State College and the New Jersey State School of Conservation. Twenty-five fellows have been selected from about 400 applicants who are spending a full year in a master's degree program. Degrees can be obtained from any of the three colleges; courses can be taken at all three schools; six weeks residence at the School of Conservation is required; and 18 of the 32 to 34 hours are taken as a block by all students. Director of the program: Eugene Vivian, Glassboro State College, Glassboro.

- The Newton Outdoor Education Project is growing rapidly in Stokes State Forest. This is a Title III project operated by the Newton School System, but providing programs for a number of other systems in the area. Contact: Ben Cummings, School of the Out-of-Doors, Branchville.

- Salem Public Schools began its efforts in outdoor education in 1966 with resident programs at an outdoor camp for one sixth grade class. The success of this program led to similar experiences for other classes. A tremendous interest has been generated in outdoor education and the 1967-68 year will see a

New Jersey (continued)

continuation of the resident program with an increased effort toward developing on-site programs. Contact: Earnest Henderson, John Fenwick School, Salem.

- Trenton: Sixth graders have been going to the New Jersey State School of Conservation for the past 5 years. Under Title I sixth grade "Poverty Schools" have a resident program during the spring at a rented camp in Pennsylvania. Contact: Robert Zelley, Junior High #4, Trenton.

- Trenton High School Action Bound, "School within a School," conducts weekend camping trips throughout the state, all year. Contact: Robert Zelley.

- An extensive day use area, Union County Outdoor Education Center (2 Glenside Park, Berkeley Heights) is available to County schools.

- John F. Kennedy School, West Berlin School System, conducts a two-day resident program for 5th and 6th graders at a YMCA camp. Classes in astronomy, music, physical education, art, nature, reading. Contact: Howard Buzzard, Edgewood Regional High School, Tansboro.

New York

- Calasanctius Preparatory School, 175 Windsor Avenue, Buffalo 14209, conducts an extensive and unique outdoor education program, which provides opportunity for pupils to go on week-long field trips to various areas of the U.S. and Canada as part of their curriculum enrichment program. Trips include Ski Camp, French Canadian Study, Midwest Geographical Study, New England Field Trip and North Canadian Wilderness Trip. Coordinator: Reverend Stephen Gerencser, Headmaster.

- East Greenbush Central Schools conduct a two-day resident outdoor education program for sixth grade pupils at the Rensselaer County 4-H Camp in Alps. 378 elementary students and 28 high school students were involved in this year's program. Coordinator: Margaret Minch, Elementary Science Coordinator.

- Fulton Consolidated School District has conducted an ESEA Title I outdoor education program at Totem Camp, Harrisville, for the past two summers. The Project is called Operation SUSIE--Summer School Innovation in Education. It was six weeks and included educational experiences in arts and crafts, fishing, boating, swimming, health instruction, nature study, music, reading, writing, arithmetic and athletics. The school administration and staff are exploring possibilities for a year-round program of outdoor education. Coordinator: Alfred Allen, Administrative Assistant for Federal Programs.

- Mamaroneck Public Schools report the development of school properties as outdoor education laboratories and the development of community nature trails. Contact: Sheldon Levine.

- North Collins Central School conducts a three-day resident outdoor education program for 4th and 5th graders, at a church-owned camp at Sandusky. Coordinator: Robert H. Jensen, Elementary Principal, 10469 Bantle Road, North Collins.

New York (continued)

- Schools of North Hempstead sponsor a Title III Outdoor Education Project. Director: Charles A. Lewis, 345 Lakeville Road, Great Neck.

- Ogdensburg City School District has conducted an ESEA Title I outdoor education program for the past two summers at Casa De Loa Camp, Saranac Lake. For many pupils this was the first exposure to living in the out-of-doors. Activities included extensive instruction in swimming and water safety; music and art activities contributing to the development of creative ability, as well as cultural appreciations. Pupils were taken on trips to places of interest in the surrounding area. Coordinator: Ben Cardwell.

- Orchard Park Central School conducts a two-day resident program for 4th grade pupils at Camp Duffield. This was the first year for the Lincoln Elementary School in a resident outdoor education program. Coordinator: Robert D. Horvath, Principal, Lincoln Elementary School, Orchard Park 14127.

- In Pine Plains a five-county Mid-Huron Conservation Education Program is under way, known as Project Spruce. Contact: Dr. Phylis Busch.

- An ESEA Title I outdoor education program in the Plattsburgh City School District has been conducted for the past two summers at Camp Woodsmoke, Lake Placid. Approximately 90 mentally retarded boys and girls participated in the program and considerable interest and enthusiasm was generated on the part of the school administration, teachers, parents and children. Experiences included instruction in swimming, boating, music, crafts, riflery, nature study, science, social studies and language arts. Coordinator: Joseph Allen, Coordinator of Federal Aid.

- Randolph Central School conducts a three-day resident outdoor education program in May and June for 6th grade pupils at Allegany State Park. This has been a successful program involving the cooperation of the Board of Education, Administration, Faculty and State Park personnel. Coordinator: Gail N. Chapman, Elementary Supervisor.

- Schalmont Central School District provides three different opportunities for grade 4, 5 and 6 students to participate in outdoor education. These include museum study and camping at Cooperstown; study of history and literature in the Schoharie Mohawk Valley; and a camping program at the Sacandaga River Campsite. Coordinator: Joseph Testo, Woestina Henry Ellers School, Rotterdam Junction.

- Schenectady Public Schools conduct a three-day resident outdoor education program for 6th grade boys and girls at Camp Chingachgook, a YMCA Camp at Lake George. More than 1,000 pupils participated in the program during May and June 1967. Coordinator: William Momberger.

- Union Free School District #24 conducts a one-week resident program for 6th graders at Holiday Hills, the YMCA Education Center in Pawling. This program has been in operation for the past 10 years. Coordinator: G. Lawrence McCue, Harbor Road School, Valley Stream 11581.

Pennsylvania

- Abington School District conducts an outdoor education program at the 5th grade level in several of its schools. Overnight and day experiences are combined to make maximum use of the facilities available in the township and the nearby College Settlement Camp. Classroom preparation and pupil planning are important features of the program. Contact: Paul A. Wilson, Jr., 409 Easton Road, Abington 19001.

- The Central Pennsylvania Outdoor Education Project, a Title III project of the Centre County Board of Education and Pennsylvania State University, involves a 26-county area. The Project sponsors in-service workshops in local school systems and develops teaching aids and procedures to help teachers make use of the natural environment as a laboratory for the various areas of the elementary school curriculum. Contact: Jerold E. Elliott, 262 Recreation Building, Penn State University, University Park 16802.

- In Duncansville, Naturealm is involved in the development of an outdoor education area at Prince Gallitzin State Park and the development of resource guides for teachers. Contact: William M. Barnhart, Box 87, Duncansville 16635.

- East Stroudsburg State College offers concentrated courses in outdoor education. An undergraduate course stresses skills, conservation and trip camping; the graduate course is geared to the elementary school program. A new summer graduate course in Recreation and Outdoor Education will emphasize advance skills of tripcrafter, certifications, conservation and be geared to the field of camp organization. Other offerings include a 9-week course in Basic Campcraft which can count as part of the physical education requirement; Camp Counseling, Camp Administration, Principles of Recreation, and Outdoor Education. Contact: Helen G. Brown, Director of Recreation.

- In Erie, the Millcreek Outdoor Center is being developed for day use by schools. Contact: Hughes Brininler, Millcreek Township Schools, 3580 West 38th Street, Erie 16506.

- The Hondaille Wildlife Sanctuary near Mt. Bethal, is used in the study of conservation by schools, colleges, organizations and the community. The Sanctuary is owned by the Hondaille Construction Materials, Inc. and is leased to the Portland Garden Club and the Lehigh Valley Bird Club. The area, which includes forest, bog, creek and springs is being preserved in its natural state. Lehigh University sponsors a yearly trip to the Sanctuary to study ecology under Dr. Francis Trembly. Franklin B. Buser, botanical consultant for the Sanctuary and professor at East Stroudsburg State College uses the Sanctuary as a resource area for his classes in ecology.

- Parkland Environmental Laboratory of the Parkland Senior High School, Orefield, was developed as a joint effort of the science faculty, Vocational Agriculture Department, Nature Clubs and students. Its purpose is threefold: (1) use as an outdoor laboratory to promote acquaintance with the study of various forms of nature; (2) to preserve and protect nature; and (3) to foster an appreciation of the natural environment. Contact: Donald Hershey, Principal; Edward Erdman, Science Department Chairman.

Pennsylvania (continued)

- Pennridge School District, Perkasie, initiated an outdoor education program at Towhee Park, approximately 10 miles from the School complex. The 300-acre area includes trails, plot sites, areas for planting new trees and shrubs, pacing course for making maps of the area. Several school campsites are also being developed for outdoor classrooms, and in-service programs for teachers have been introduced. Temple University will work with the group and offer credit. Contact: William S. Woehr, Elementary Curriculum Assistant.

- Pennsylvania State University offers an option in outdoor education and interpretive services at the undergraduate and graduate levels. A resident outdoor education course for teachers is offered at the Stone Valley Recreation Area during the summer. 12 weeks of resident outdoor education for elementary and junior high classes are scheduled for 1968. Contact: Jerold E. Elliott.

- The Southeastern Pennsylvania Outdoor Education Center, funded under Title III in May 1966, has the purpose of determining the educational potential of two outdoor areas--the John Tyler Arboretum and the Ridley Creek State Park. A workshop of 24 teachers wrote guides for outdoor learning for science, language arts, mathematics, social studies and art. The central theme of these materials is man and his relationship to his environment and the emphasis is on student acquisition of concepts and development of attitudes through direct personal experiences using the discovery approach in the outdoors. During 1966-67, 7,600 students, under the leadership of 50 teachers in 33 public schools, private and parochial schools, took field trips to the two areas. Three teacher training courses were also conducted. Contact: Charles C. Ochs, Director of the Project, Rose Tree Media School District, Media 19063.

- The State Department of Public Instruction is giving leadership to outdoor education and conservation, including the addition of a position of Conservation Education Advisor, and the appointment of a Conservation-Outdoor Education Advisory Committee. The Department is conducting conservation and outdoor education "Awareness Seminars" for public school administrators. This is a two-year program which will be completed in 1968 and involves cooperation of many other state and federal agencies. The next step will be teacher workshops in all parts of the state. Work is under way on guidelines for college programs in conservation and outdoor education, and guidelines for the development of outdoor laboratories. Contact: Eleanor Bennett, Conservation Education Advisor, Box 911, Harrisburg 17126.

- Stoney Acres Camp, a 119-acre farm purchased by students of East Stroudsburg State College, is incorporated as a non-profit organization and will serve as an off-campus recreation center. Whenever possible, the building renovation and construction has been done by students. Educational classes in outdoor education, science, recreation and adaptive physical education, and conferences are making good use of the area and facilities. Students voted to make the camp a wildlife sanctuary and are maintaining feeders for wildlife. A reconstructed lake will soon be stocked with fish. A ten-year development plan is being prepared. Each student of the College owns 2356 sq. ft. of the camp while he or she is enrolled. Contact: Helen G. Brown, Director of Recreation.

Pennsylvania (continued)

- The Stroudsburg Public Schools reports the development of a six-acre plot within walking distance of 2,200 students. The learning center (Pocono Creek Outdoor Learning Laboratory) is a place where students learn those skills, appreciations and understandings that can best be learned outdoors. Contact: Ralph Knauf, Director.

- The West Shore Outdoor Education Project offers in-service education to develop an outdoor education program. Contact: Frederick O. Howard, West Shore School District, Carlisle and Warwick Roads, Camp Hill 17011.

III. MIDWEST DISTRICT

Illinois

- Two summer nature schools have been initiated by Champaign and Urbana. The two-week sessions are part of the summer enrichment program for the schools and are operated by school personnel.

- Ten children's camps, owned by the Chicago Metropolitan YMCA and located in the tri-state area (Wisconsin, Illinois, Michigan), have been made available to schools, both public and private. An active promotional campaign is under way. Contact: Peter Sorensen, Chicago Metro YMCA, 19 South LaSalle Street.

- The Cooperative Outdoor Education Project for Williamson County serves all the schools of the county and features a mobile laboratory on a trailer. Contact: Craig Chase, Washington School, Marion.

- Crystal Lake Grade Schools have received a Title III grant to carry on a multi-district, year around outdoor program. The Crystal Lake Park District furnishes major facilities, including a new building. A mobile laboratory in a Cortez Van is an unusual feature. Contact: Norbert Ziemer.

- DeKalb Public Schools appointed an outdoor education director in September 1967. The schools are involved in a system-wide day program and are studying the possibility of initiating school camping. Contact: Warde Whitaker, North Junior High School, DeKalb.

- The Department of Outdoor Teacher Education, Northern Illinois University, has added a course, "Workshop in Outdoor Education," especially designed to assist school systems in planning programs tailored to their own needs. The Department has also recently released a color-sound film, "Just Beyond the Chalkboard," dealing with many facets of outdoor education. Contact: Don Hammerman, Box 299, Oregon 61061.

- The 1967 session of the Illinois Legislature passed an act making it possible for Illinois schools to provide educational experiences outside the state. The act has special significance in view of the fact that there are several fine winterized camps in Wisconsin and Michigan near to Illinois population centers, especially Chicago. Contact: Robert Ring, Department of Public Instruction, Springfield.

- Seasonally scheduled day experiences characterize one of the older programs in Illinois. Palatine Schools, whose program began in the early fifties, schedules each sixth grade for two fall trips, two winter trips, and two spring trips to Camp Reinberg. One full-time school faculty member plus certain assistance from camp personnel make for an unusual leadership pattern. Plans are now under way to expand the program to other grade levels. Contact: Richard Fruend.

- The Rockford Schools program has recently been extended to a new site for day groups. Facilities for most activities in this program, including the resident program, are furnished by the Park District. Contact: Robert Weirick.

- Wal-Camp, a Lutheran Camp and conference facility, is sponsoring resident outdoor education sessions for several of the church-related schools in its area as well as for a few public schools. Contact: Wesley Visser, Kingston.

Indiana

- The State Department of Education has accepted a plan for employing a state director of conservation education. The first year, money is to be raised outside of the department budget and in succeeding years, the department will provide the funds for the new position.

- A Conservation Education Workshop held in April each year and having an attendance of 120, is sponsored by universities of Purdue, Indiana State, Ball State and Indiana, and the State Conservation Education Committee.

- An ESEA Title III program in outdoor education at Gary has promise of developing into a fine outdoor education program.

- Summer camping for inner city children is receiving an increasing emphasis in the state from school systems, governmental agencies, and camp operators.

- The Indianapolis Public Schools have employed an outdoor education consultant for several years and conduct a day program for 5th graders and a six weeks summer program for 4th, 5th and 6th grades and a spring and fall resident program for 6th graders. Several city parks are being utilized as day centers for outdoor education instruction.

Contacts: Magdalene A. Davis, Instruction Center, 1644 Roosevelt Avenue, Indianapolis 46218
Rey Carlson, Dept. of Recreation & Parks Administration, Indiana University, Bloomington

Michigan

- A comprehensive program is under way at the outdoor education complex of the Battle Creek Public Schools. An extensive school garden and farm program is being conducted along with the well-known outdoor school at the Clear Lake Camp. A 100-acre farm with a new center and owned by the Board of Education now serves as a laboratory for a wide variety of outdoor education activities. Contact: Jack Wykoff, Director, Outdoor Education Center, Dowling 49050; Larry McKown, Science Consultant, Battle Creek Public Schools.

- In the Coldwater Community Schools, a Title III program on the use of school sites as outdoor education laboratories is helping to show how programs can be developed on school properties. Contact: Jim Miller, program director: Don Hollums, outdoor education consultant.

- The Conservation Education Reserve program has been initiated by resolution by the Conservation Commission. The idea is to recognize, by the issuance of a certificate and an attractive entry sign, private landowners who will set aside 5 acres or more for an outdoor laboratory for the use of schools and youth groups.

Michigan (continued)

- An extensive recreation area of 3,500 acres is being developed in Genesee County adjacent to the ctiy of Flint. This area will serve as an outdoor education center for many school activities, as well as for outdoor recreation for the people of the county.

- The Haslett Public Schools conducted their first outdoor school program at the Mill Lake Outdoor Center. This first venture was in February, with the winter season adding to the interest and excitement of the elementary classrooms involved. Haslett also has a 40-acre outdoor laboratory with a lake which will find increasing use as an outdoor resource. Contact: Robert Copland, Principal, Wilkshire School.

- Outdoor school programs are now included in 20 elementary schools of the Lansing Public Schools. A school farm program is being planned whereby an increasing number of elementary children will have outdoor experiences. Contact: John Hunt, outdoor education coordinator, Everett Elementary School.

- There is an increasing demand for credit courses in outdoor education. Michigan State University, East Lansing, has conducted off-campus workshops and seminars at Grand Haven, Woldumar Center and other locations in the Lansing area, and the Conservation School at Higgins Lake during the current year. Other centers are being selected.

- A community school program has been initiated by the Okemos Public Schools in cooperation with the Olivet College Mott Program. Outdoor education is included in this interesting new venture. Ronald Z. Bacon has been named community school director.

- Over 3/4 of the more than 100 outdoor schools are held in state-owned outdoor centers. Many of the centers now have waiting lists and an increasing number of other camps will be used by schools.

- Outdoor skills are finding their way into physical education and recreation programs in an increasing number of schools and colleges. These skills, which are essential phases of outdoor education, include casting and angling, shooting, hunter safety, and archery.

- Pontiac schools conduct ski instruction as a part of the physical education program of several elementary schools. Arrangements are made with nearby ski centers for the instruction. Contact: Lee W. Haslinger, Supervisor of HPER, Pontiac Public Schools.

- The University of Michigan is involved in the preparation of a conservation correspondence course which would be available to Michigan citizens, probably within the next year or two.

- The State Committee on Conservation Education is devoting special efforts this year to recommendations for improving the education of the underprivileged in the inner city.

- School forests now number over 600 in the state. A new guide to the educational use of school forests is to be prepared by a joint committee.

Michigan (continued)

- An annual state conference on outdoor education and regional workshops are held each year to provide in-service education for increasing numbers of teachers and outdoor education leaders who are involved in programs throughout the state. The conferences are sponsored by the State Department of Education in cooperation with other organizations and agencies. Contact: Edwin G. Rice, Consultant, Michigan Department of Education, Lansing.

- A subcommittee on outdoor education of the State Educational Planning Council for School Health Education, Physical Education, Recreation and Outdoor Education studies the outdoor education needs of the state. The Council is appointed by the State Superintendent of Public Instruction and advises the State Department of Education on needed services to schools relating to the fields involved. Contact: Julian W. Smith, Chairman of the Council; Edwin G. Rice, Secretary to the Council.

  Contacts: Julian W. Smith, 403 Erickson Hall, Michigan State University, East Lansing 48823
  Rodney Smith, Michigan Department of Conservation, Lansing.

Ohio

- The Ohio Conservation and Outdoor Education Association was established in 1967. The first annual meeting will be held in May of 1968 and the organization hopes to enroll members from the public and private schools as well as university and college teachers and professional conservationists.

- The Ohio Forestry Association is continuing to expand its interests in conservation and outdoor education. Their magazine Ohio Woodlands contains a section called "Conservation in Action" that has been well received. The Ohio Forestry Association is now recognizing school land laboratories that meet the standards that have been developed by the Association. A forestry camp of two one-week sessions is held in June each year for high school students having an interest in this type of program. They also give five annual awards to individuals who have contributed significantly to the conservation education movement in the state.

- The soil and water conservation districts are providing increasing services to public and private schools. These services include aerial photos of school sites, soils information, teacher workshops, planting materials and master planning services. The districts also conduct an annual conservation projects contest for which the state winner receives a $500 scholarship.

- Several ESEA Title I projects include activities in the out-of-doors. Some of these programs are carried on during the year and some in the summer.

- The ESEA Title III programs now number seven. One program, the Mohican School of the Out-of-Doors, services fifteen school systems in the north central part of the state, for five-day resident experiences. A planning grant in the fall

Ohio (continued)

of 1966, has provided three school districts with information and a beginning for a tri-district operation, which now employs a full-time coordinator of outdoor education. It is the first instance, in Ohio, where several districts have gone together for a non-resident outdoor education program. Another planning grant for development of a school land laboratory at Brookville is now in progress.

- Public school conservation and outdoor education supervisors are on the increase. The fall of 1967 was the first time a school system had employed an outdoor education supervisor full-time. It was for a system of 15,000 students. Shortly thereafter three school districts with a total student enrollment of around 15,000 students, employed one person cooperatively as a coordinator of outdoor education. Many school districts now employ one-quarter or one-half time coordinators.

- Nature centers are on the increase. The latest addition to the nature centers of Ohio is the Cincinnati Nature Center, opened in May 1967.

- Agency and church camps are increasingly consulting with schools, so that they may remodel or construct their facilities in such a way as they will be suitable for school use during the school year.

- Colleges and universities are moving forward on several fronts. Participation in outdoor education programs by college students, in both pre-teaching and student teaching experiences, is on the increase. Several colleges have acquired land areas for development of land laboratories and others are considering acquiring such areas. Ohio State University, as of July 1, 1968, will have a School of Natural Resources, which will include a department concerned with conservation and outdoor education.

- State, metropolitan and city parks are becoming increasingly involved in providing not only services directly for students, but are providing teacher education opportunities in conservation and outdoor education.

- Regional teacher organizations are attracting increasing numbers of teachers to their outdoor education section meetings. Several of these all-day meetings have attracted over 200 teachers and in some cases, a division of the meeting was necessary because a suitable location to handle such a large group was not possible.

Contacts: John Hug, 2090 Frank Road, Columbus 43223
Robert Finlay, State Department of Education, State Office Building, Columbus 43215.

Wisconsin

- State Conservation Curriculum Committee, which began meeting in the 1940's, has presently created several subcommittees, each of which will produce some written materials for the improvement of teaching of conservation in Wisconsin's schools, which is a state requirement.

- The Wisconsin Council for Conservation Education, which began in 1964 and has a teacher membership of nearly 350, conducts an annual meeting and county workshops. Membership and attendance at the county workshops is increasing rapidly.

- The State Department of Public Instruction now employs one Conservation Education Supervisor. His duties began on September 1, 1967. The Physical Education Supervisor has been working in the area of outdoor education and school camping for several years. The State Department also has a council of five people that meets regularly to coordinate the various efforts of several divisions of the State Department. The council includes representatives from several fields related to outdoor education.

- The Department of Natural Resources owns and operates a 250-acre outdoor education center, north of Madison. Its present day-use facilities provide a location for educational meetings in the many areas of resource management. The all-year operation will be made more valuable when the present plans for overnight facilities for 110 people are a reality.

- The ESEA Title III projects now number about five. One of the programs utilizes a large house trailer developed into a laboratory, which is taken around to inner city schools and parked for several days. Fourth grade students have an opportunity to study in the area of animal adaptation.

- The ESEA Title I projects in the state that involve outdoor education or conservation number about ten at this time.

- Teacher education institutions, numbering 42, offer courses in conservation or resource management, amounting to one or more credits.

- Several of the state universities now have outdoor education or conservation education minors. Students electing this minor participate in outdoor education programs of the public schools. The University of Wisconsin at Madison offers, as of June 1967, a Ph.D. in science and conservation.

- School systems, numbering 420 in the state, provide the following statistics:
  - 28 have resident outdoor education programs
  - 368 have outdoor laboratories, owned by the schools, ranging in size from 2 to 800 acres and averaging 7 miles from the central city
  - 40 school systems have a separate conservation course offered for one semester or up to two years
  - 60 conservation clubs are organized in the schools
  - 6 school systems own their own resident facility.

- Teacher education opportunities are provided by several groups. Wisconsin Audubon Camp has programs for 250 teachers each summer. Trees for Tomorrow provides one-week conservation education and resource management sessions.

Wisconsin (continued)

Regional education workshops are sponsored for one and a half days on the topic of "Outdoor Education and School Camping." Several universities sponsor summer workshops in conservation, usually offering three credits.

Contacts: Robert Ellingson, Division of Conservation, Department of Natural Resources, Madison 53701.
Dave Engleson, State Department of Public Instruction, Madison 53702.

IV. NORTHWEST DISTRICT

Idaho

- American Falls began a project focusing on junior high school students in the summer of 1967. Contact: Harry Shimada, Jr.

Montana

- The Great Falls Public Schools have made application for an ESEA Title III grant to develop an elementary and secondary pilot conservation education program that hopefully will change emphasis and philosophy in current classroom work.

- The University of Montana and the Confederated Salish and Kootenai Indian Tribes co-sponsor a one-week family camping and outdoor recreation workshop in the Jocko Valley on the Flathead Indian reservation. In a primitive setting, campers share in practical learning situations that provide recreation and relaxation.

Oregon

- Canby School District #86 (Box 160, Canby 97013) has a regular outdoor education program for all 6th grade boys and girls. Each student spends one week in an outdoor school laboratory.

- Cook County Schools, Prinville 97754, have been carrying on an outdoor education program for all sixth grade students since 1958. This was the first school district in Oregon to have a full-fledged outdoor education laboratory as part of their district curriculum. Each 6th grade boy and girl spends one week in an outdoor school laboratory. High school students are used as counselors following a rather comprehensive in-service preparation program.

- Klammath Falls District #1475 South, Allemeter Street, Klammath Falls 97601, Klammath County School District #600, has had an on-going program in outdoor education whereby conservation concepts are incorporated into the grades 1-12 curriculum. Field trips and one-day outdoor education experiences have been a part of this school district's program for the past 20 years.

- McMinnville School District #40, 1500 North Baker Street, McMinnville 97128--each 6th grade boy and girl spends one week in an outdoor school as a part of their regular school program.

- Mapleton School District #32, Mapleton 97453, has included outdoor education as a regular part of the school curriculum since 1961. Sixth grade students spend one week in an outdoor school. Mapleton also has an on-going program whereby high school students are used as counselors in this program.

Oregon (continued)

- Milwaukie School District #1, P. O. Box 22047, Milwaukie 97222, has an outdoor education program for all 6th grade boys and girls. Each student spends one week in an outdoor school laboratory.

- Multnomah County Schools, Multnomah Intermediate Education District, P. O. Box 16538, Portland 97216, conducts outdoor education for 6th graders as part of one of the federally financed projects. Students from Washington County schools are also participating in this program. In addition to the county schools, a number of the Portland city elementary schools conduct one-day outdoor education experiences in conjunction with this program.

- The Oregon State Department of Public Instruction, Salem, has had an Advisory Committee on Outdoor and Conservation Education since 1958. At that time the late Rex Putnam, then Superintendent of Public Instruction, appointed a committee representing the various state agencies and forest products industries along with school representatives to serve in an advisory capacity to his office with the long range purpose of eventually establishing outdoor education as a regular part of every school district program in the state. This committee has been meeting monthly and, as a result of their efforts, a new handbook on outdoor education will be distributed to the Oregon schools in 1968. Plans are also under way to provide a manual on outdoor and conservation resources and materials for use by teachers.

- Salem School District #24J, 1309 Ferry St., S.E., Salem, has had an outdoor education program as part of the special education program for a number of years. In addition, the Englewood elementary school conducts a three-day outdoor school for 6th graders. Plans are under way for providing additional outdoor education experiences in the elementary schools in this district.

Washington

- Aberdeen District #5, 216 North G Street, Aberdeen 98520, conducts tree planting activities. All 9th grade students travel to Olympic National Forest. The program is supervised by the U. S. Forest Service and consists of a short talk on multiple use forestry, visit to fire lookout tower, and tree planting (in groups of two).

- District 100C, Bremerton 98310, conducted camping activities for approximately 100 secondary students under Title I, ESEA. The district hopes to continue this aspect of the program with Title I funds. Contact: Margaret Berry, Secondary Coordinator.

- District 401, Cape Flattery Schools, Clallam Bay, has a marine study session each spring for Biology I and II groups. A 100-gallon salt water tank in the lab is visible from the hall. Biology II is doing experimental work in fresh water studies and mammal skin preparation.

Washington (continued)

- Olympic College, Bremerton 98310, offered a "Special Campcraft" class last summer (in addition to the regular basic campcraft course). Besides camping skills, special emphasis was given to botany, marine zoology, creative writing and photography. Students were allowed a choice of the area in which they wished to concentrate their efforts. The program was a great success. A possibility for next summer is a Special Campcrafts class in Europe. Ten days of the three-week period will be spent hiking in the Swiss and Austrian Alps. Special emphasis areas would be geography, history and photography in addition to camping and hiking skills. Contact: Ruth L. Jewell, Outdoor Education Coordinator.

- Quillayute Valley District #402, Box 8, Forks 98331, is currently studying the possibilities of a 60-acre site which they own, located about 10 miles from the school.

- South Kitsap District #402, Port Orchard, has embarked on a new program this year. All of the 6th grade students participate in a one-week outdoor education program at Pilgrim Firs, a camp about 15 miles from Port Orchard. Department of Natural Resources personnel assist in the program and studies include: fire control; soils, their conservation and improvement; outdoor courtesy; forest management; tree and plant identification; growth management; and tree farm management. Contact: Robert E. Darst, Director of Outdoor Education, Orchard Heights School.

- North Kitsap District #400, P. O. Box 68, Poulsbo 98370, has a one-year planning grant under Title II of ESEA to study the feasibility of developing a model marine science laboratory for use in the K-12 program. Contact: Dick Colombine. Wolf Elementary School has a nature trail near the school. Contact: J. Arne Maki.

- The outdoor education program of the Sequim School District #323, Sequim, consists of a student-planned overnight campout with related educational activities, designed to coordinate with the Clallam County Forest Conservation program each spring. This program is carried out at the 6th grade level. The actual campout is held at Camp Ramblewood, an auxiliary facility of Sequim Bay State Park. On these grounds the students search for specimens of plant and sea life which have been studied in the classroom. Here, too, they may observe various types of natural erosion on both the plants and the soil. The campout serves as a culmination of several months' study in science, health and social studies, relating and reinforcing the concepts taught in the classroom.

- Central Kitsap Schools, P. O. Box 8, Silverdale 98383, conduct several outdoor education activities, including: at Seabeck Elementary School--beach trips by 2nd and 3rd graders in connection with maintaining the school aquarium; annual hike in the woods for 1st grade and posters for forest conservation; and soil conservation studies in 4th grade. At Tracyton Elementary School--geology collections; leaf and cone collection in fall and flowers in the spring for kindergarten through 3rd grades; marine biology trips to beach for 3rd through 5th grades; bird identification trip for 6th grade.

V. SOUTHERN DISTRICT

Florida

- Taylor County has been funded for the establishment of a "Resource-Use Outdoor Education Center" to serve six counties in northwestern Florida.

Georgia

- DeKalb County Schools recently opened the Fernbank Science Center. Contact: Lewis S. Shelton, Director, 156 Heaton Park Drive, Atlanta 30307.

- Project Tapper, primarily a physical education PACE project, expects to integrate a program of outdoor education. Tapper is centered in the Bacon Primary School, Hinesville. Contact: Norman L. Stripling.

Kentucky

- An outstanding outdoor education center is located in the Land Between the Lakes area of western Kentucky, which serves the elementary schools in this area. Contact: Bailey Gore, Murray State College, Murray 42071.

Louisiana

- A coeducational Camping and Outdoor Education course is offered each spring semester at Northwestern State College, Natchitoches. The course offers 3 hours credit in Recreation 208. The College recently purchased 12 trip canoes and several canoe trips have been taken down the rapids in Arkansas. The course is popular with an enrollment of at least 35 each year. Plans are under way for a follow-up course entitled Recreation 308 or Biology 308. The course would be advanced camping and outdoor education for those interested in extensive camping and it would be a field trip course for those desiring biology credit. It would be conducted during the month of August under the joint leadership of physical education and biology personnel. Locality would vary from year to year--Mexico, western U. S., Canada, etc. Contact: Joyce Hillard, Department of Physical Education.

Tennessee

- Outdoor education is one of several emphases in a county-wide curriculum improvement program launched recently in Clarksville-Montgomery County Schools. The outdoor education program is based at the St. Bethlehem School, Clarksville. Contact: Sam Johnson, Coordinator.

- Outdoor education is a part of a Title I ESEA program in the Metropolitan Schools of Nashville. The first step was an In-Service Workshop on the Education of Disadvantaged Children, with general orientation for the program. The 38 teachers in the outdoor education group then had lectures, discussions, and experience in many topics and activities--outdoor skills, ecology, creative teaching in the outdoors, nature crafts, music and folk dancing, astronomy, and others; prepared a manual for use by teachers in the system; and planned and conducted a two-week day camp program for children who would be entering sixth grade, which provided a practicum for teachers. A mobile unit which is a combination workshop, library and laboratory, is available for use at school sites and an Outdoor Education Consultant assists teachers in developing concepts to be taught and in working with the children on field trips. It is hoped to expand this program. Another phase of outdoor education in Nashville is a nature center added this year with trails, exhibit area, library, activity stations along the trails, and an outdoor teacher on the site. A pilot program was also conducted with two 6th grade classes in a week-long outdoor school at the Land Between the Lakes area. Contact: Elizabeth Roller, Consultant in Outdoor Education.

VI. SOUTHWEST DISTRICT

California

- The Golden Gate Audubon Society, Berkeley Recreation and Parks Department, and Berkeley Adult Education School conduct an Audubon Nature Training program in Aquatic Park. The program provides outdoor education in an urban environment for adult leaders of youth. They, in turn, pass on to children information on how to discover and enjoy nature in the school yard, playground, backyard or vacant lot, thus enriching urban living for children who may not have the opportunity to experience the more natural world. Contact: Phyllis Lindley, P. O. Box 103, Berkeley 94703.

- Contra Costa County Schools Office (75 Santa Barbara Road, Pleasant Hill 94523) is negotiating for use of unlimited acreage in the East Bay Region (San Francisco area). If this plan comes to fruition it can mean the establishment of numerous sites for use of the 450,000 in-school youngsters of Alameda and Contra Costa Counties. Contact: William H. Landis, Coordinator, Mathematics and Science.

- Cucamanga Elementary School District conducts a five-day resident outdoor school program, contracting with other districts for use of camp facilities. Contact: George Scott, Superintendent.

- Hayward Unified School District (P. O. Box 5000, Hayward 94541) has as part of its curriculum guide at the K-6 level a section titled, "Environmental Science." The major aim of this program is to relate the child to his environment. Certain areas of natural science have been identified that relate to the local area of the Bay Region and scope and sequence has been developed in these indicated areas. The district is producing its own 2 x 2 slides, filmstrips, and 8 mm. cartridge films for this program. Contact: Banning Fenton, Science Coordinator.

- Huscicon (humanities-science-conservation), a non-profit corporation, has been successful in focusing attention of Contra Costa County citizens on the problems of achieving outdoor education for the county. The Richmond School District is involved in the development of a 6th grade program and a rehabilitation work-study program for alienated high school youth in conjunction with Huscicon. Contact: Ken Thollaug, Director, 2635 Mira Vista Drive, El Cerrito 94530.

- Several Kern County School Districts accepted a Tulare County invitation to make use of the Clemmie Gill Scicon School and its staff this year. Additional districts are expected to participate next year. John Cline of the Visalia City Schools was hired by the Kern County Superintendent of Schools for one day a week to assist in preparing students, teachers and administrators in Kern County for the Scicon experience and its follow-up. Contact: Bruce Crawford, Assistant Superintendent, Kern County Schools, Civic Center, Bakersfield 93301.

- In 1966-67 one Science and Agriculture Mobile Unit was available for each of the Los Angeles City elementary schools. Mobile units include: Agriculture, Science and Conservation Unit; Dairy Unit; Small Stock and Poultry Unit; California Wildlife Unit. Contact: L. B. Ryel, Supervisor, Elementary Science and Agriculture, Griffith Park, Pettigrew Center. The Los Angeles City Schools report three current developments: (1) "Leadership 67"--a multicultural

California (continued)

leadership program; (2) application for a planning grant at the Gold Creek Outdoor Education Site; (3) a multi-use center at the Gold Creek Outdoor Education Center. Contact: Durrell A. Maughan, Outdoor Education Consultant, Youth Services Center Branch, 3317 Bellevue Avenue, Los Angeles 90026.

- During 1967-68 the Los Angeles County Outdoor School at Glenn Ranch was used by six school districts in the county and one in San Bernardino County. A new development is the experiment with outdoor education for educationally handicapped children and trainable and educable mentally retarded children. A group of educationally handicapped were taken to Glenn Ranch this year in cooperation with California State College at Los Angeles and the Special Education Section of Los Angeles County Schools Office; John Howe, Consultant and Coordinator. Torrance Unified School District has requested that the County Office provide its outdoor school experience for approximately 100 educable mentally retarded children during the 1968-69 school year. Other groups are exploring possible participation of MR children in outdoor school programs. Another development is the employment of college students in outdoor school staffs while they earn field service credit. The program offers the advantage of staff of much better training and attitude as well as the benefit of practical application of skills and firsthand observation for the students. Beloit College, Beloit, Wisconsin, and Antioch College, Yellow Springs, Ohio have such field service programs at present. Contact: Jack L. Davidson, Outdoor Education Consultant, Los Angeles County Schools Office, 155 West Washington Boulevard, Los Angeles 90015.

- The McCurdy Nature Study Center, operated by the Los Angeles County Department of Parks and Recreation, 155 West Washington Boulevard, Los Angeles 90015, serves as a resource center for outdoor education in the greater Los Angeles area. The Center is located in a foothill area north of Pasadena's city center and includes a museum, displays, an auditorium, classroom, laboratory-library, live animal room and trails. Special programs have been developed for grades 4-6 and naturalists work with the school groups. Study outlines are available from the Center for use prior to the field trip and natural science information is correlated with the current course of study. The purpose of the tours is to help teachers develop pupils' awareness and understanding of the natural world and an appreciation of the natural environment. Contact: David Marqua, Social and Cultural Section.

- The Los Angeles State and County Arboretum, operated by the Department of Arboreta and Botanic Gardens, 301 North Baldwin Avenue, Arcadia 91006, is widely used by schools in the Los Angeles metropolitan area. The Department also maintains two other facilities--Descanso Gardens and South Coast Botanic Gardens which offer opportunities for outdoor science and conservation learning and are used for field trips by schools in the area. Contact: Mrs. Gertrude Woods, Specialist, Education Section.

- The Outdoor School of the Merced County Schools moved to its new and permanent location, Camp Green Meadows in 1964. The camp is located near the south entrance to Yosemite National Park in the mountain village of Fish Camp, at an elevation of 5,000 feet. Facilities include dormitory-type cabins, dining hall and kitchen, small infirmary, crafts lodge, science lab, student store and recreational areas for softball, volleyball and archery. The basic curriculum

California (continued)

is centered on natural science and conservation education, however all areas of the curriculum are taught through meaningful true-to-life experiences. Cabin groups are 8 in size and supervised by high school junior or senior students. Instruction is provided by college students. Training is provided through a weekend workshop. During this workshop consultants are brought in to work with the student instructors. Teacher's guides are also used. Contact: Kenneth B. Lunney, Outdoor School Coordinator, Merced County Schools Office, Old Courthouse, Merced 95340.

° About 13 acres, formerly a natural swamp, has been designed at the Mount San Antonio College Wildlife Sanctuary (1100 North Grand Avenue, Walnut 91789). The area was landscaped, and paths, footbridges, ponds, and fences installed. Tours are available for organized groups by appointment and for individuals during specified hours. Trained students serve as guides. The Sanctuary is used by classes in biological science of the College as an outdoor laboratory and also by school groups. Contact: William Hawkins, Biological Science Department.

° The first outdoor education program in Orange County (an ESEA Title I project) was initiated in February 1968 by the Cypress School District, Forest Home. The program serves 6th grade classes in the Cypress District plus several 6th grade classes from parochial schools in the Cypress attendance area. Contact: Glenn M. Farrell, Orange County Schools Office, 1104 West 8th Street, Santa Ana 92701.

° The Orville Wright Elementary School, 2331 St. Marks Way, Sacramento 95825, conducts a three-day outdoor school for 6th grade students at Camp Judy, Alta, during the fall. Program emphases include: study of natural resources--their beauty, value, conservation; ecology; relationship and dependence of man on natural resources. Contact: Walter Ashworth or Hugh Booth.

° The Pasadena Department of Recreation offers extensive outdoor education activities for individuals, families, and classroom groups, as a part of its program. A few of these are briefly described. The Instructional Trip Program provides all-day trips to the mountains, canyons, or tide pools for 5th and 6th grade classrooms. The Nature and Outing Specialist does advance planning and directs the trips. The Department has offered a Family Camping Course for the past 15 years, which includes lectures and demonstrations, followed by a camping trip. A Family Camping Manual was prepared for the course. More than 1,000 participate each year in the Introduction to Fishing course, which is co-sponsored by the local casting club. Introduction to Hiking includes lecture-demonstration classes and sponsored hikes to various spots in the nearby mountains. A Nature Center is established on each of the summer playgrounds and features a miniature zoo, collectors' corner, conservation projects, and cookouts. An instructional trip recently added to the list was to Vetter Mountain, highlighted by a visit to a lady lookout. During the past two years the Department has been locating and utilizing natural areas within walking distance of many of the 28 elementary schools. The purpose is to eliminate bus transportation costs and allow more classrooms to participate in an outdoor education program. A "walk from school" involves inspection of the area by the Department's Specialist, a pilot trip by a sixth grade classroom, the teacher and parent volunteers with recorders listing pertinent information. A trip guide and outline are then made up and classrooms begin to use the area. Contact: Edward E. Bignell, Administrative Director of Recreation, Pasadena Unified School District, 351 South Hudson Avenue, Pasadena 91109; Ted Pearson, Nature and Outing Specialist.

California (continued)

- Plumas Elementary School conducts an outdoor education program at the Donner Mines Boy Scout Camp in the historical gold rush country. Also participating in the program are the Emigrant Gap Elementary School District (Placer County) and Ready Springs Union Schools (Nevada County). Field trips are also conducted throughout the summer and school year to points of interest in northern California. Contact: Don Ireland Davis, 1555 Encinal Road, Live Oak 95953.

- The Riacto Unified School District conducts a three-day program at Camp Sealey for 6th grade students. Contact: Edward Ryan, Assistant Superintendent of Instruction.

- The National Audubon Society sponsors an outdoor nature program at the Richardson Bay Wildlife Sanctuary, Tiburon, for students and teachers of grades 3-6 of Marin County Schools. Contact: Mrs. Kembert Kengsley, Coordinator, Natural Science Education Resources.

- Norman Marsh, 6th grade teacher, Sacramento City Schools, with his principal and the aid of PTA workers, several years ago developed a section of their 10-acre school campus as a natural area that could be used for educational purposes. The project gained national recognition. Contact: Norman Marsh, Bowling Green School, 4211 Turnbridge Drive, Sacramento 95824.

- Sacramento County Schools Office in cooperation with community leaders and Bob Feagans, Principal of the Juvenile Ranch, located in the eastern section of the county, is in the process of developing a nursery which is propagating the native oaks of the Central Valley of California. Interested conservationists have aided in providing the materials for this project. Approximately 500 seedlings will be available for transplanting to the school yards of Sacramento County on Arbor Day 1969.

- Eighteen school districts in San Diego County are now providing outdoor education experiences for 17,000 school children. Cajon Valley Union School District is the most recent addition to the list. A fourth camp, Camp Davidson, is being used in addition to Camps Cuyamaca, Palomar and Monston. All of the old buildings at Cuyamaca and Palomar are being replaced by San Diego city and county by means of a $1.3 million revenue bond program. Contact: Denver C. Fox, Principal and Director of Outdoor Education, San Diego City Schools.

- The San Joaquin County Schools (Room 407 Courthouse, 222 East Weber Avenue, Stockton 95202) have conducted an outdoor school program since 1956, for 6th grade students. The seaside site--the San Francisco YMCA Camp, LaHonda--provides for marine biology study. The main emphases are conservation and ecology, with some weather study and star study. Contact: Leonard M. Beeman, County Coordinator or Harlan Thompson, Camp Director.

- San Juan Unified School District, Carmichael, has shown increased interest in school site nature areas, involving several elementary schools and two high schools. Contact: Jeanne Bartelt, chairman, outdoor education committee. The School District also conducts an outdoor summer school for grades 5-7 and "Operation Challenge"--mountaineering through outdoor education for grades 8-12 at Camp Arcade, Soda Springs. Plans are under way to extend the program to the fall season. Contact: Jane R. Winther, Director of Physical Education and Recreation.

California (continued)

- Integration of Educationally Handicapped as well as EMR is a regular part of the Santa Barbara County program. Contact: Mrs. Phylis Gandy, Principal, County Outdoor School, Star Route, Santa Barbara 93105; Sidney Ottman, Santa Barbara County Schools Office, 44 Cathedral Oaks Road, Santa Barbara 93105. The county program also incorporates: classroom teachers as trail instructors; Beloit and Antioch College students as senior counselors; high school students as junior counselors; an operating budget of $25 per pupil. Santa Barbara City Schools put up $7 for conservation education for each sixth grader, to be used in the county outdoor education program, a special weekend camping program, or other program in conservation as determined by each school. Contact: Norman Enfield, Harding School, 1625 Robbins, Santa Barbara.

- The Tri-County Science and Conservation Program is an outdoor education program for 6th grade students in Monterey, Santa Clara and Santa Cruz counties. The program runs from September through June and is located at Redwood Glen School, Santa Cruz County. A second site--Monte Toyon near Aptos, Santa Cruz County, is also operated from March through June. Approximately 6,000 students participate. A full-time staff of certificated teachers is employed to conduct the program which is coordinated by consultants from the three counties. Contact: Carl Miescke, Santa Clara County Schools Office, 70 West Heddin Street, San Jose 95110. Three schools in these counties have also developed nature trails on the school sites.

- Sonoma State College, in cooperation with the National Audubon Society, conducted a series of Workshops on Biological Concepts for elementary teachers in Marin County. The out-of-doors was used as the laboratory and the workshops covered the new science texts. Contact: Ernie White, Marin County Schools, 201 Tamal Vista Boulevard, Corte Madera 94925.

New Mexico

- Albuquerque has secured a Title III grant to develop site and program. Contact: John Cox, Albuquerque Public Schools, P. O. Box 1927, Albuquerque 87103.

Nevada

- The University of Nevada, Reno, conducts a course each semester entitled "Rock Climbing and Mountaineering." The course is quite popular with a waiting list each term. Rock climbing techniques are taught, but the major portion of the course stresses mountaineering, camping, conservation and safety procedures. The course is co-educational and interdisciplinary. Contact: G. A. Broten, Department of Health and Physical Education.

- The Department of Elementary Education, University of Nevada, conducts a two-week summer workshop in outdoor education at the University Camp on Lake Tahoe. Contact: Professor Rosella Linskie.

Utah

- Brigham Young University, Provo, hopes to acquire a camp for internships, summer camp, winter sports and general outdoor program. Contact: Burton K. Olsen, 273 Richards Building.

- A two-day workshop held in the state included discussion on what each recreation department, school district, and private organization could do for "real action" in outdoor recreation.

- Several school districts, especially in the Salt Lake City, Ogden and Provo areas, are interested in developing outdoor education programs and acquiring lands for educational purposes.

- Utah communities have greatly varied outdoor resources very near them, with resultant varied opportunities for outdoor observation and recreation. A project in the Alpine School District is attempting to stimulate a broader use of these varied environments as children proceed through school, by frequent field experiences to illustrate textbook learning. The first phase of the project is to develop curriculum for K through 12. The second phase will be to develop nature trails and teaching kits to implement the proposed curriculum. The final phase will involve teacher training. It is also hoped that the School District can obtain funds to acquire and develop a resident camp in the nearby mountains for outdoor education experiences for students. Contact: Lyle R. Tregaskis, Director of Federal Programs, Alpine School District, 50 North Center, American Fork, Utah 84003.